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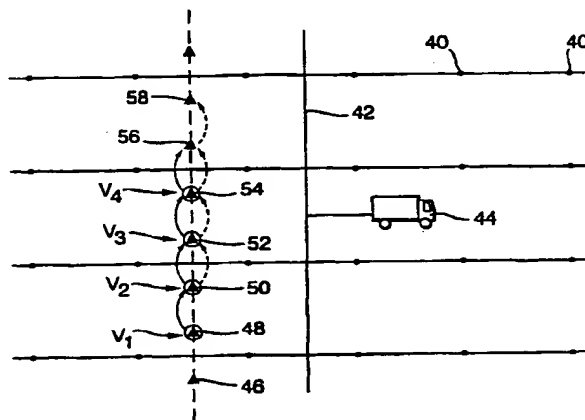
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- (71) Applicant (for CA only): SCHLUMBERGER CANADA LIMITED [CA/CA]; 24th Floor, Monenco Place, 801 6th Avenue S.W., Calgary, Alberta T2P 3W2 (CA).
- (71) Applicant (for all designated States except CA, FR, US): SCHLUMBERGER TECHNOLOGY CORPORATION [US/US]; 1325 South Dairy Ashford, Sugar Land, TX 77077 (US).
- (71) Applicant (for FR only): SERVICES PETROLIERS SCHLUMBERGER [FR/FR]; 42, rue Saint Dominique, F-75007 Paris (FR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): MOLDOVEANU, Nicolae [CA/US]; 4611 Green Tail Drive, Houston, TX 77084 (US).
- (74) Agent: STOOLE, Brian, D.; Geco-Prakla (UK) Limited, Schlumberger House, Buckingham Gate, Gatwick, West Sussex RH6 0NZ (GB).
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(54) Title: IMPROVED SEISMIC SURVEYING METHOD



(57) Abstract: An improved method of acquiring seismic data using a plurality of vibratory seismic sources including the steps of deploying a seismic sensor; deploying a plurality of vibratory seismic sources at different source points; simultaneously actuating the seismic sources; acquiring seismic data attributable to the seismic sources using the seismic sensor; redeploying at least two seismic sources, one seismic source being thereby positioned at a source point previously occupied by the other seismic source; simultaneously actuating the redeployed seismic sources; and acquiring seismic data attributable to the redeployed seismic sources using said seismic sensor. The present invention also involves an improved method of acquiring seismic data using a plurality of vibratory seismic sources, where each seismic source is capable of producing seismic energy within given frequency ranges, including the steps of deploying a seismic sensor; deploying a plurality of vibratory seismic sources at different source points; simultaneously actuating the seismic sources in such a manner that the frequency range of the seismic energy produced by one seismic source is substantially outside the frequency range of the seismic energy produced by another seismic source; and acquiring seismic data attributable to the seismic sources using the seismic sensor.

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